



Application No. 10/674,448  
Attorney Docket No. 030933

Amendment under 37 C.F.R. §1.111  
Amendment filed: October 6, 2006

### AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended) A method for forming a metal oxide film ~~comprising,~~  
comprising the steps of:  
  
    ~~when forming~~ a metal oxide film ~~is formed~~ by conducting a thermal treatment on a  
coating film containing an organic metal compound formed on an inner wall of a tube, and  
  
    performing  
  
        an ultraviolet irradiation treatment or  
  
        an ozone treatment  
  
on the coating film prior to or simultaneously with the thermal treatment;  
  
    wherein the tube has an opening and a length, and wherein the size of the opening is not  
  
more than 2 mm and the length is not less than 30 cm.

2. (Original) The method for forming a metal oxide film of claim 1, wherein the  
ultraviolet irradiation treatment or the ozone treatment is ~~performed~~ performed prior to the  
thermal treatment and simultaneously with a drying process of the coating film.

3. (Currently Amended) The method for forming a metal oxide film of claim 1, wherein  
the step of performing an ultraviolet irradiation treatment ~~is executed via~~ further comprises the  
step of forming a mask of a predetermined pattern on the coating film.

4. (Original) The method for forming a metal oxide film of claim 1, wherein the tube has the size of the opening in the range of 0.5 to 2 mm and the length in the range of 30 cm to 3 m.

5. (Currently Amended) A method for forming a secondary electron emission film of a gas discharge tube ~~comprising~~, comprising the steps of:

~~when forming~~ a secondary electron emission film formed of a metal oxide film ~~is formed~~ by conducting a thermal treatment on a coating film containing an organic metal compound formed on an inner wall of a glass tube, and

performing

an ultraviolet irradiation treatment or

an ozone treatment

on the coating film prior to or simultaneously with the thermal treatment,

wherein the glass tube is an elongated glass tube having an inner diameter of not more than 2 mm and having a length of not less than 30 cm.